

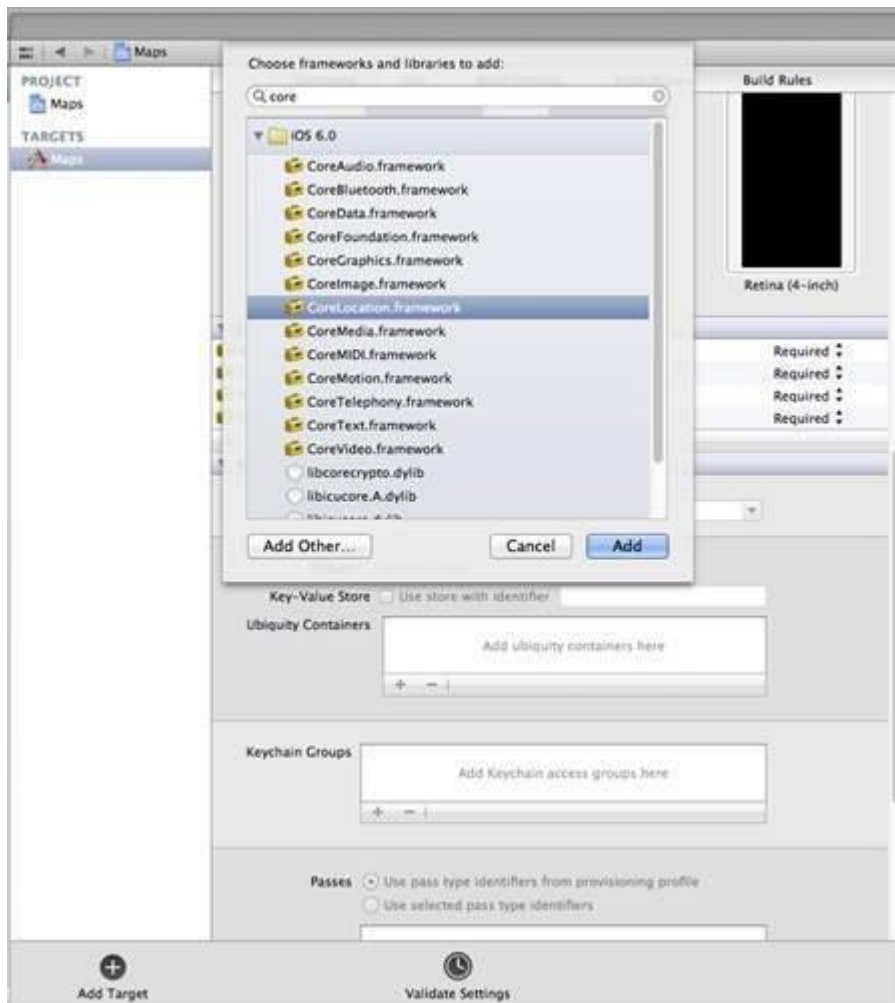
Location Handling in ios

We can easily locate the user's current location in iOS, provided the user allows the application to access the information with the help of the core location framework.

Location Handling – Steps Involved

Step 1 – Create a simple View based application.

Step 2 – Select your project file, then select targets and then add CoreLocation.framework as shown below –



Step 3 – Add two labels in **ViewController.xib** and create IBOutlet's naming the labels as **latitudeLabel** and **longitudeLabel** respectively.

Step 4 – Create a new file by selecting File → New → File... → select **Objective C class** and click next.

Step 5 – Name the class as **LocationHandler** with "**sub class of**" as NSObject.

Step 6 – Select create.

Step 7 – Update **LocationHandler.h** as follows –

```

#import <Foundation/Foundation.h>
#import <CoreLocation/CoreLocation.h>

@protocol LocationHandlerDelegate <NSObject>

@required
-(void) didUpdateToLocation:(CLLocation*)newLocation
    fromLocation:(CLLocation*)oldLocation;
@end

@interface LocationHandler : NSObject<CLLocationManagerDelegate> {
    CLLocationManager *locationManager;
}
@property(nonatomic,strong) id<LocationHandlerDelegate> delegate;

+(id)getSharedInstance;
-(void)startUpdating;
-(void) stopUpdating;

@end

```

Step 8 – Update **LocationHandler.m** as follows –

```

#import "LocationHandler.h"
static LocationHandler *DefaultManager = nil;

@interface LocationHandler()

-(void)initiate;

@end

@implementation LocationHandler

+(id)getSharedInstance{
    if (!DefaultManager) {
        DefaultManager = [[self allocWithZone:NULL]init];
        [DefaultManager initiate];
    }
    return DefaultManager;
}

-(void)initiate {
    locationManager = [[CLLocationManager alloc]init];
    locationManager.delegate = self;
}

-(void)startUpdating{
    [locationManager startUpdatingLocation];
}

-(void) stopUpdating {

```

```

    [locationManager stopUpdatingLocation];
}

-(void)locationManager:(CLLocationManager *)manager didUpdateToLocation:
(CLLocation *)newLocation fromLocation:(CLLocation *)oldLocation {
    if ([self.delegate respondsToSelector:@selector
        (didUpdateToLocation:fromLocation:)] {
        [self.delegate didUpdateToLocation:oldLocation
            fromLocation:newLocation];
    }
}
@end

```

Step 9 – Update **ViewController.h** as follows where we have implemented the **LocationHandler delegate** and create two **IBOutlet**s –

```

#import <UIKit/UIKit.h>
#import "LocationHandler.h"

@interface ViewController : UIViewController<LocationHandlerDelegate> {
    IBOutlet UILabel *latitudeLabel;
    IBOutlet UILabel *longitudeLabel;
}
@end

```

Step 10 – Update **ViewController.m** as follows –

```

#import "ViewController.h"

@interface ViewController ()
@end

@implementation ViewController

-(void)viewDidLoad {
    [super viewDidLoad];
    [[LocationHandler sharedInstance]setDelegate:self];
    [[LocationHandler sharedInstance]startUpdating];
}

-(void)didReceiveMemoryWarning {
    [super didReceiveMemoryWarning];
    // Dispose of any resources that can be recreated.
}

-(void)didUpdateToLocation:(CLLocation *)newLocation
fromLocation:(CLLocation *)oldLocation {
    [latitudeLabel setText:[NSString stringWithFormat:
        @"Latitude: %f",newLocation.coordinate.latitude]];
    [longitudeLabel setText:[NSString stringWithFormat:
        @"Longitude: %f",newLocation.coordinate.longitude]];
}

```

@end

Output

When we run the application, we'll get the following output –



[Previous Page](#)